Appl. No. 10/041,033   <u>PATENT</u>
Amdt. dated January 30, 2006
Amendment November 30, 2005

<u>REMARKS/ARGUMENTS</u>

This Amendment is in response to the Final Office Action dated November 30, 2005.
Claims 1-38 were pending in the present application. The present response cancels claims 1-37,
and adds new claims 39-46, leaving pending in the application claims 38-46.

It is respectfully submitted that claim 38, the only remaining independent claim, has not
been amended, and the newly added claims simply allow previously submitted limitations recited
in claims 2-9 to depend from claim 38, such that the amendments contained should be entered
after final without the filing of a Request for Continued Examination. Reconsideration of the
rejected claim, as well as entrance and consideration of the newly presented claims, is
respectfully requested.

I.   Rejection under 35 U.S.C. §103

Claims 1-38 are rejected under 35 U.S.C. §103(a) as being obvious over *Chinchar* (US
6,675,178) in view of *Tse* (US 6,895,471). Claims 1-37 have been canceled from the present
application. Applicants respectfully request that *Chinchar* and *Tse* do not teach or suggest all
limitations recited in claim 38.

Applicants' claim 38 requires a system for efficiently performing memory
intensive computations, including:

> a **data cache located in memory** of the system, wherein data stored in the data cache
> **facilitates faster computations** on the data stored in the data cache than if the data is stored in a
> database, wherein the data cache is coupled to a first set of data stored in a database and a second
> set of data stored in memory of the system, wherein the data cache is configured to perform a scan
> operation on at least a portion of the first set of data and a first update operation on the second set
> of data with changes that have occurred in the first set of data;
> an engine manager coupled to the data cache and configured to instruct the data cache to
> perform the first update operation; and
> a **solver coupled to the data cache and configured to perform one or more
> computations on the updated second set of data stored in the data cache**, the updated second
> set of data including the changes that have occurred in the first set of data,
> wherein **the engine manager is configured to determine if the first set of data has
> changed since the last update operation**, wherein if the first set of data has changed, the engine
> manager is configured to perform a second update on the second set of data in the data cache with
> the changes to the first set of data since the last update operation,
> wherein **the solver is configured to re-perform the one or more computations on the
> updated second set of data stored in the data cache including the changes that have occurred
> in the first set of data since the last update operation**

(*emphasis added*). Such limitations are neither taught nor suggested by *Chinchar* and *Tse*.

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Chinchar teaches "enhancing a commercial transaction via a communication network" by using "synchronized updates to configuration databases associated with different business entities," whereby "a change or update in configuration data stored in a first configuration database is detected" and "revision data is transmitted to a second configuration database within a maximum time interval after detection" (col. 2, lines 26-37). Assuring that the second database "adequately mirrors or tracks" the first configuration database ensures that the "business decision and the associated transaction are accurately executed because the first configuration database and the second configuration database have accurate contents that mirror one another at the time of initiation of the transaction" (col. 11, lines 45-63). *Chinchar* does not teach or suggest that the data for the transaction might change during the processing of the transaction, such that the data used to process the transaction may no longer be accurate. *Chinchar* does not teach or suggest detecting and transmitting the changes after the initiation of the transaction. Further, *Chinchar* does not teach or suggest "a solver is configured to re-perform the one or more computations on the updated second set of data stored in the data cache including the changes that have occurred in the first set of data since the last update operation," whereby a transaction can be re-processed where the underlying data has changed during processing of the transaction. As such, *Chinchar* cannot render claim 38 obvious.

Tse does not make up for the deficiencies in *Chinchar* with respect to claim 38. *Tse* is cited as showing data stored in a data cache facilitating faster computations on the data stored therein than if the data is stored in a database. Even if *Tse* provides such teaching, and if it would be obvious to combine the references, *Tse* still fails to teach or suggest that the data for a transaction might change during the processing of the transaction, such that the data used to process the transaction may no longer be accurate. *Tse* does not teach or suggest an "engine manager" configured detect and transmit changes after the initiation of the transaction, or "a solver is configured to re-perform the one or more computations on the updated second set of data stored in the data cache including the changes that have occurred in the first set of data since the last update operation," whereby a transaction can be re-processed where the underlying data has changed during processing of the transaction. As *Tse* and *Chinchar* do not teach or suggest these limitations, Applicants' claim 38 and the claims that depend therefrom cannot be rendered

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obvious by *Tse* and *Chinchar*, alone or in combination. Applicants therefore respectfully request that the rejection with respect to claim 38 be withdrawn.

II.   Newly Presented Claims

Claims 39-46 have been added to allow the limitations recited in previously submitted claims 2-9 to depend from claim 38. These claims therefore are supported by the specification and do not add new matter. Applicants therefore respectfully request consideration of newly presented claims 39-46.

CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance and an action to that end is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,

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